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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,546	09/26/2005	Satoshi Watanabe	OHK-0010	1926
23353 7590 07/08/2908 RADER FISHMAN & GRAUER PLLC LION BUILDING			EXAMINER	
			BAYOU, AMENE SETEGNE	
1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036		1	ART UNIT	PAPER NUMBER
			3746	
			MAIL DATE	DELIVERY MODE
			07/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/550,546 WATANABE ET AL. Office Action Summary Examiner Art Unit AMENE S. BAYOU 3746 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 14 April 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 6-8 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 and 6 is/are rejected. 7) Claim(s) 2,7,8 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 26 September 2005 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

PTOL-326 (Rev. 08-06)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 01/10/2007,09/26/2005.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Specification

 The abstract of the disclosure is objected to because it contains file name "DC311005.DOC" at the end of the paragraph and need to be deleted. Correction is required. See MPEP § 608.01(b)

Claim Rejections - 35 USC § 103

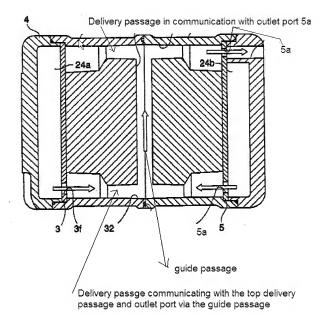
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the difference between the subject matter sought to be patented and the prior are such that the subject matter sa whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 6 are rejected under 35 U.S.C 103(a) as being unpatentable over Arai et al'147 in view of Shibuya (US patent number 4544332).
- 4. In re claim 1 Arai et al'147 disclose swash plate compressor including:
 - A reciprocating compressor, in figures 3,7 and 8,comprising: cylinder block (1) having formed therein a plurality of cylinders (11), Pistons (12) that make reciprocal movement inside cylinders (11), a first cylinder head (4) fixed to one end of cylinder block (1) via a valve plate (3), a second cylinder head (6) fixed to another end of cylinder block (2) via a valve plate (5), a first delivery chamber (24a) formed at first cylinder head (4), into which a working fluid let out from a first compression space formed toward one end inside each of said cylinders is guided, a second delivery chamber (24b) formed at second cylinder head (6),

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into which a working fluid let out from a second compression space formed toward another end inside each of said cylinders is guided, plurality of delivery passages (shown in figure 7 and 8) formed at cylinder block, an outlet port (5a) located at cylinder block (6) or cylinder head which communicates between one of delivery passages and an external circuit, with other delivery passage that does not communicate with outlet port made to communicate with said first delivery chamber (24a) and said second delivery chamber (24b) and also made to communicate via a guide passage (labeled in figure below) with delivery passage in communication with outlet port (5a), delivery passage in communication with outlet port (105a, in figure 3) is made to communicate with at least either first delivery chamber or second delivery chamber (124b) via a constricted portion (105b) having a smaller passage section than the passage section (105c) at areas (i.e. 103a and 105c) where other delivery passage communicates with first delivery chamber (124a) and second delivery chamber (124b).

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But Arai et al'147 fails to disclose

The dimensions of constricted portion are set so as to achieve an area equal to
or less than the area of a circular section with a diameter of 1.5 mm.

However Shibuya '332 teaches a double acting type compressor including:

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 The discharge medium passes thru constricted portion (53a) and the diameter of the constriction is set such that the required degree of pulsation attenuation is achieved, in column 5 lines 35-40.

- 5. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the compressor of Arai et al'147 by selecting the proper diameter of the constriction (orifice) as taught by Shibuya '332 to achieve acceptable pulsation attenuation. Also please note that it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).
- 6. In re claim 6 Arai et al'147 in view of Shibuya '332 as applied to claim 1 disclose the claimed invention:

Arai et al'147 disclose:

 A constricted portion (5a or 105b) formed at a valve plate (5), in figure 3,9 and column 5, lines 64-66.

Allowable Subject Matter

7. Claim 2 dependent on claim1 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claim 7 dependent on claim1 is objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims

9. Claim 8 dependent on claim1 is objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims

Response to Arguments

10. Applicant's arguments, see page 6 paragraph 4-7 and page 7, filed on 04/14/2008, with respect to the rejection(s) of claim(s) 1 and 6 under 35USC 103 (a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Arai et al'147 and Shibuya (US patent number 4544332). Shibuya '332 disclose that the diameter of the constriction is selectable based on pulsation level reduction requirements.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amene S. Bayou whose telephone number is 571-270-3214. The examiner can normally be reached on Monday-Thursday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-

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8300.Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Charles G Freay/ Primary Examiner, Art Unit 3746

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